Dear Sir:

Please transfer $25.00 to my account No. xx-xxxx.

John Smith

John Smith

Figure 1

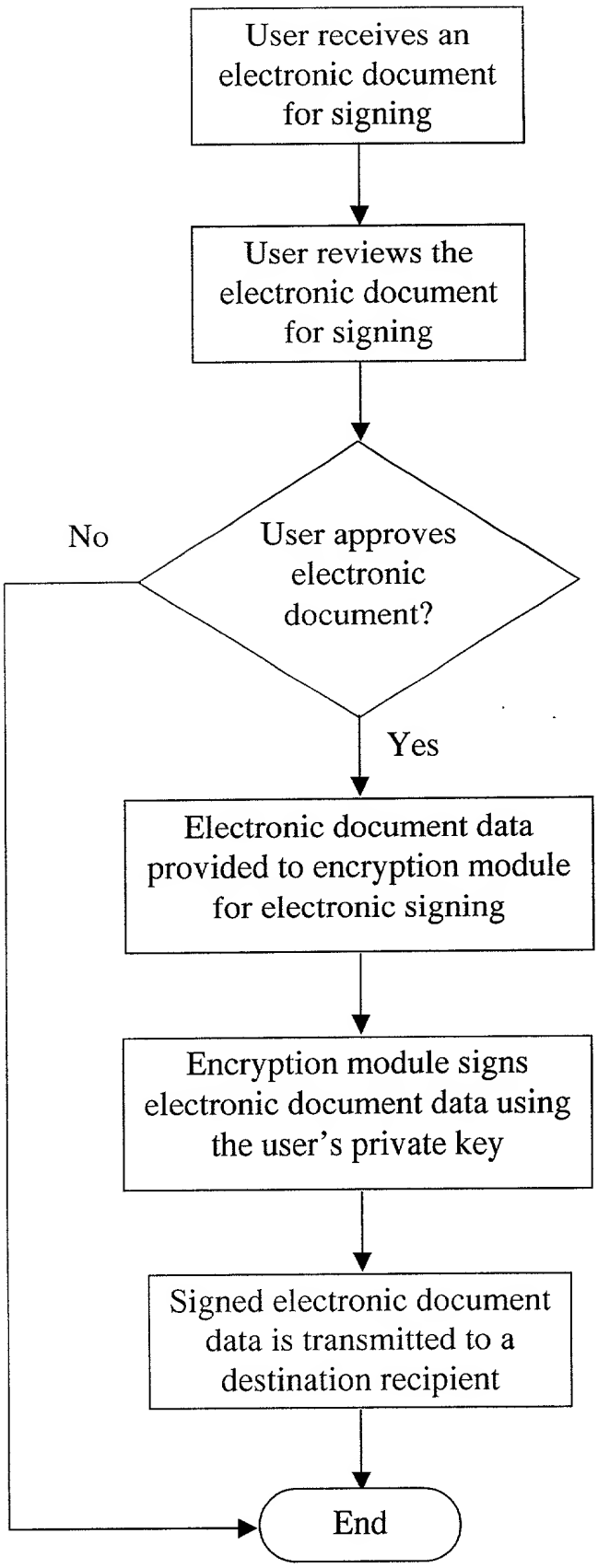

User receives an electronic document for signing
User reviews the electronic document for signing
User approves electronic document?
No
Yes
Electronic document data provided to encryption module for electronic signing
Encryption module signs electronic document data using the user's private key
Signed electronic document data is transmitted to a destination recipient
End

Figure 2a

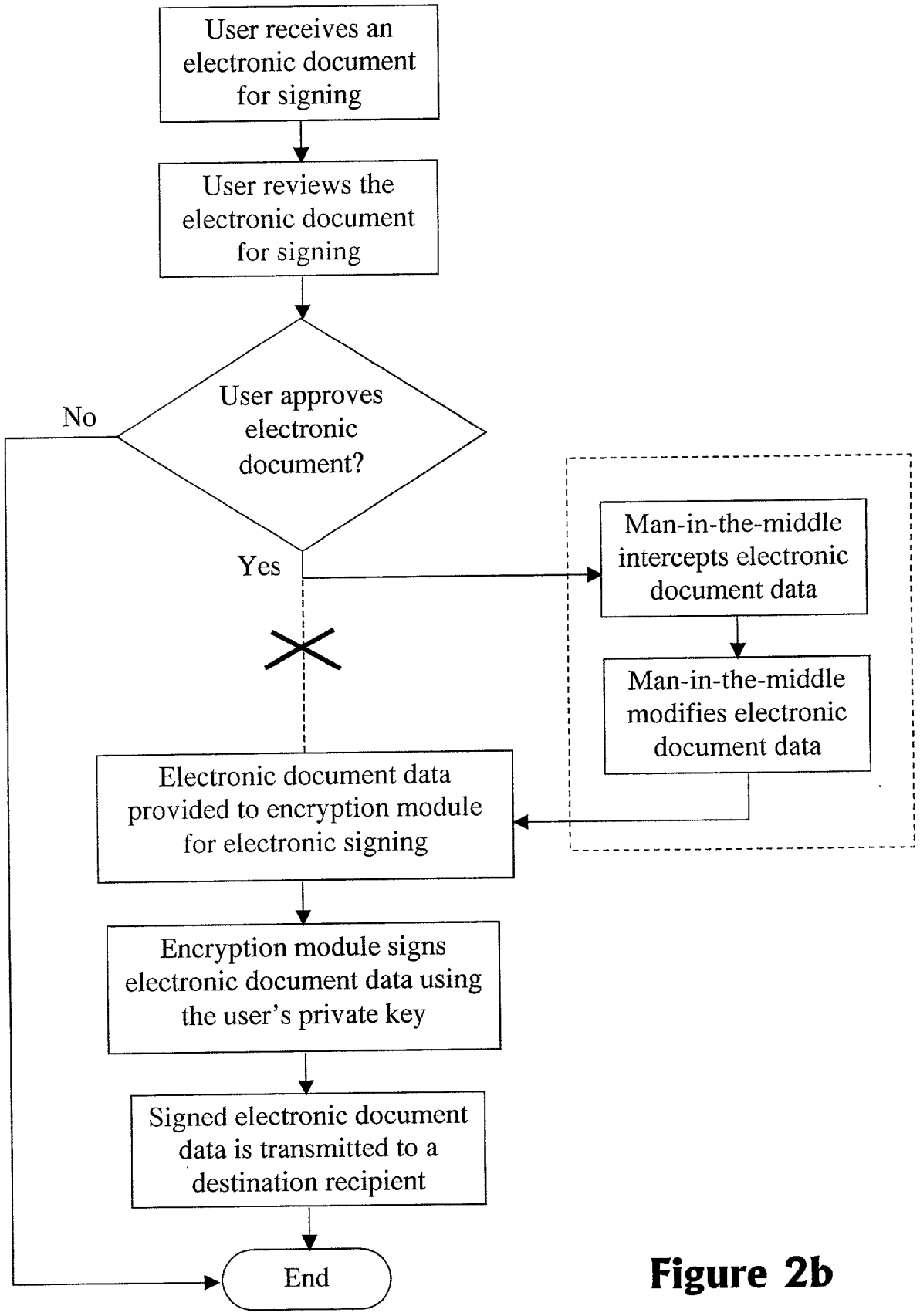
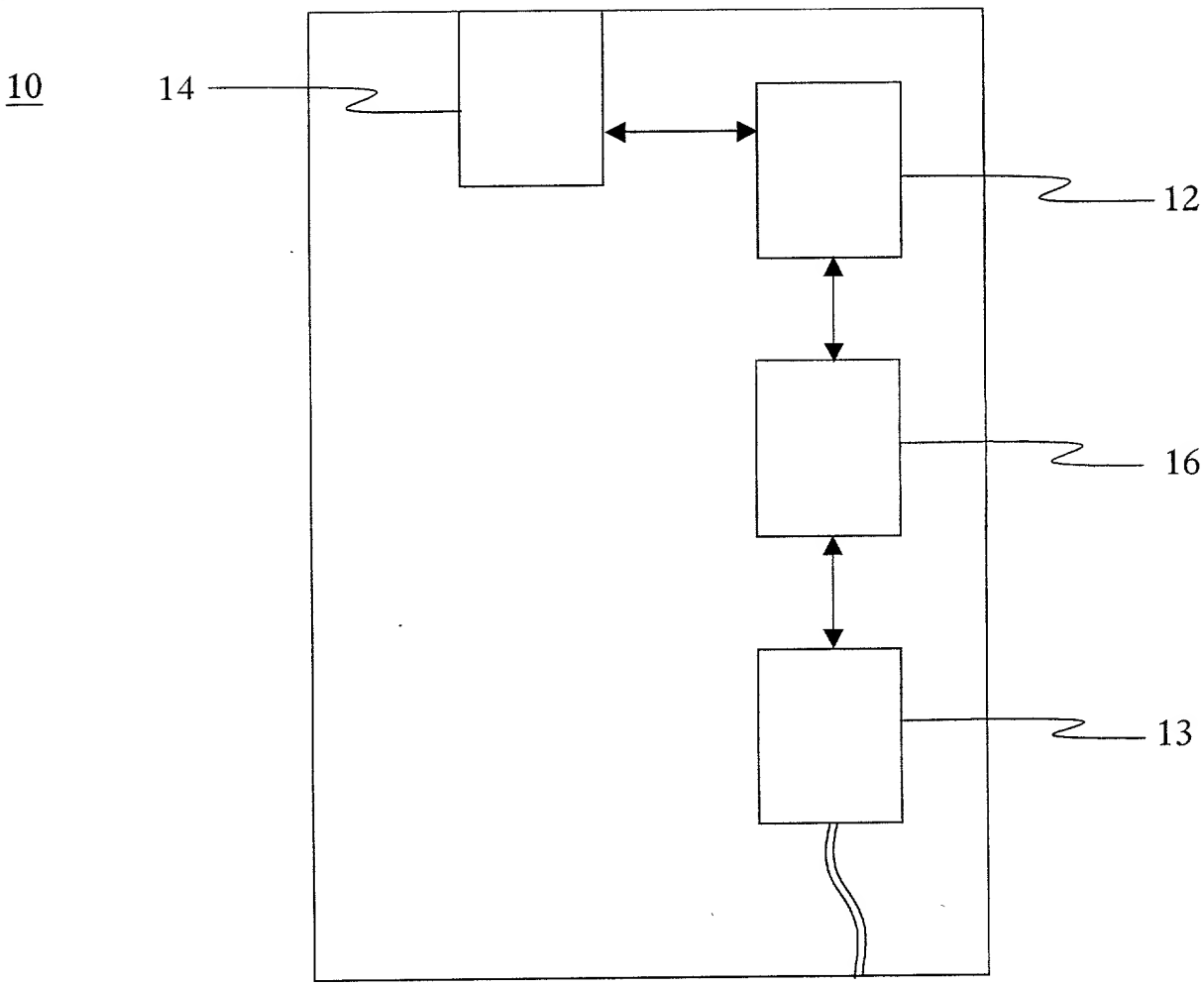
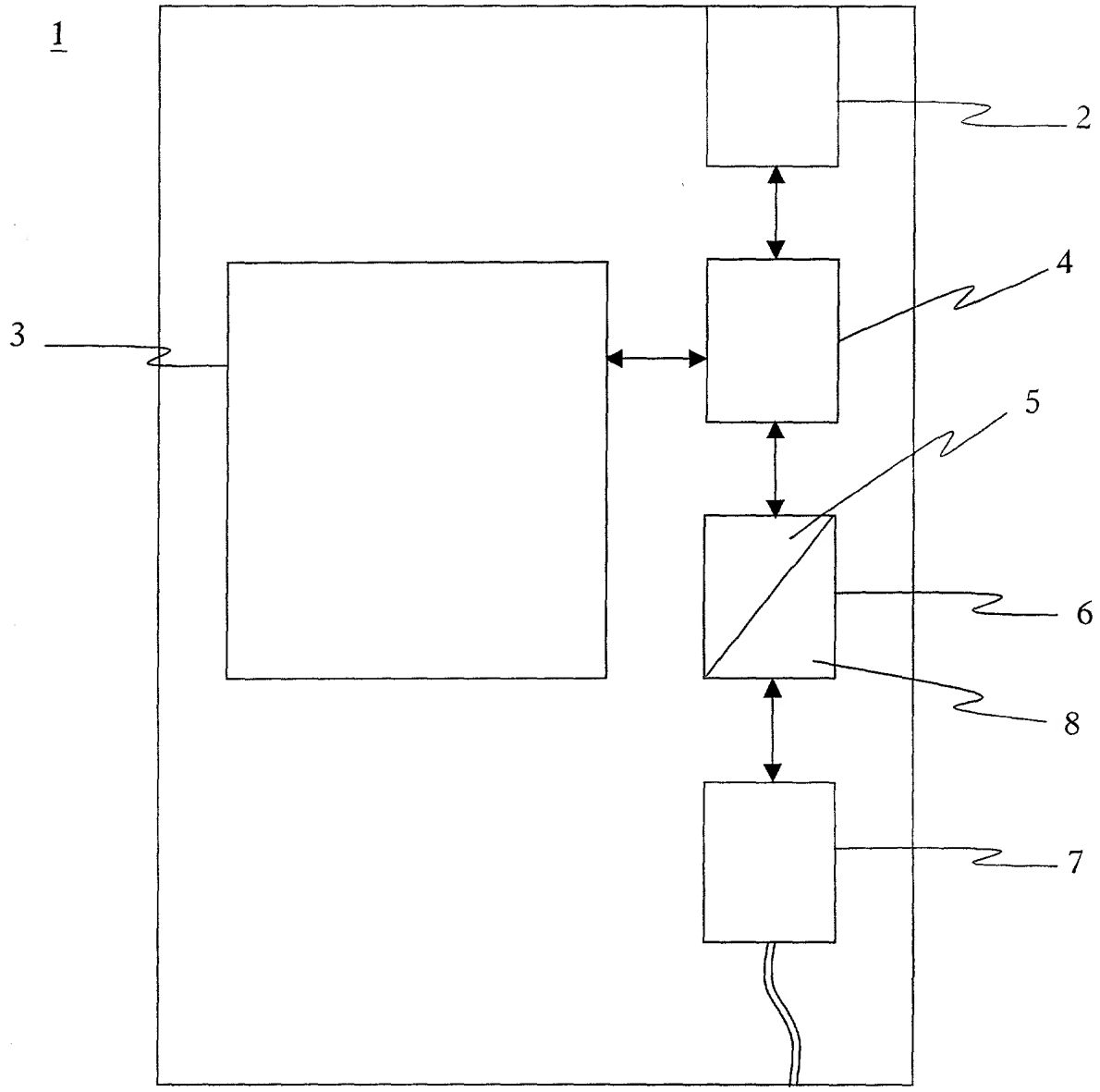

User receives an electronic document for signing
User reviews the electronic document for signing
User approves electronic document?
No
Yes
Man-in-the-middle intercepts electronic document data
Man-in-the-middle modifies electronic document data
Electronic document data provided to encryption module for electronic signing
Encryption module signs electronic document data using the user's private key
Signed electronic document data is transmitted to a destination recipient
End

Figure 2b



10 is the digital signature module
12 is a processor for digitally signing
13 is a I/O port for receiving digital data that has been approved by the user
16 is a memory circuit for storing at least a private key of the user
14 is a biometric input platen approx continuous with outer surface of module

Figure 3



6 is a memory circuit
5 is ROM for storing private keys
8 is other memory for storing document data

Figure 4

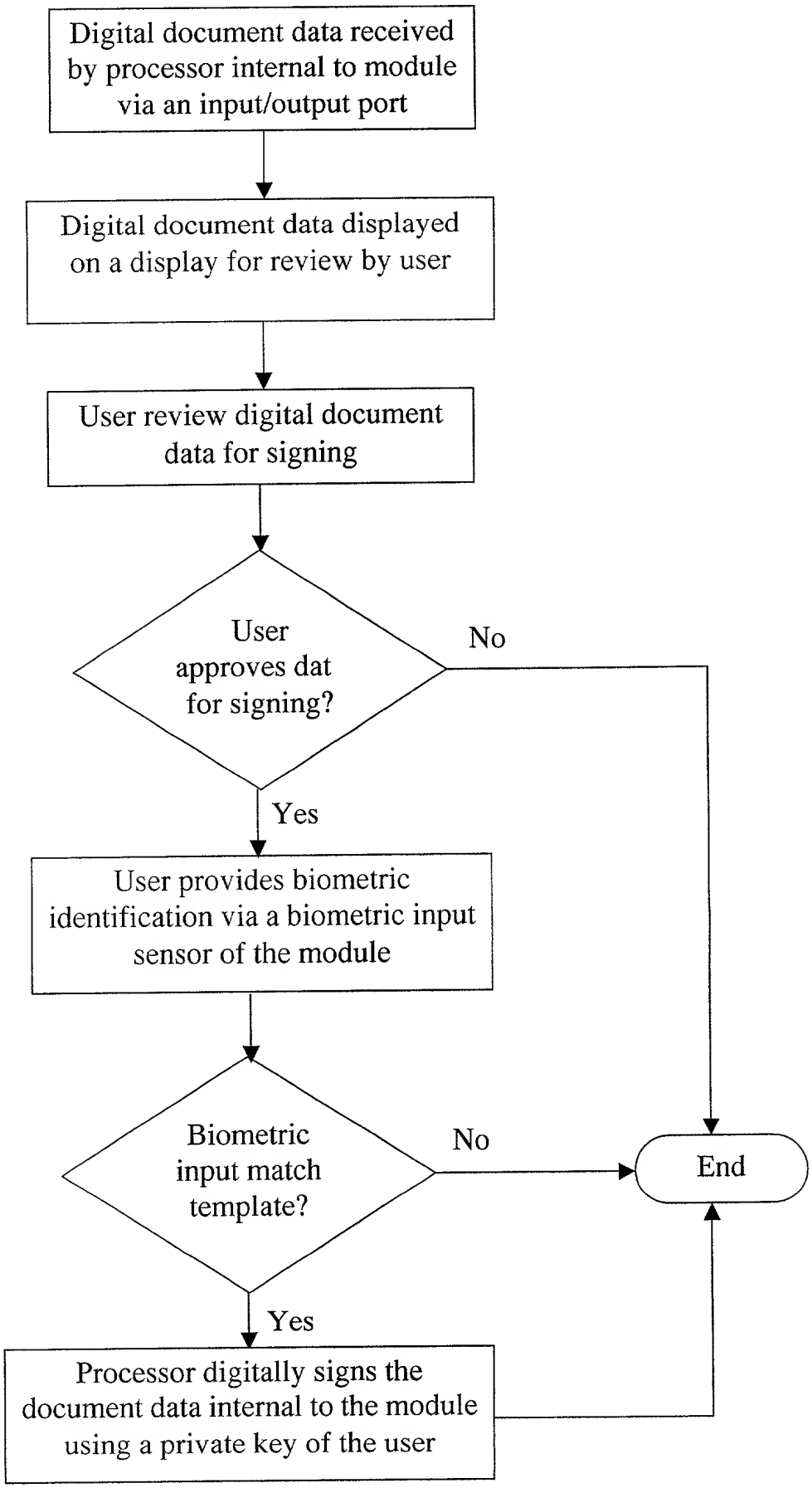

Digital document data received by processor internal to module via an input/output port
Digital document data displayed on a display for review by user
User review digital document data for signing
User approves dat for signing?
No
Yes
User provides biometric identification via a biometric input sensor of the module
Biometric input match template?
No
End
Yes
Processor digitally signs the document data internal to the module using a private key of the user

Figure 5

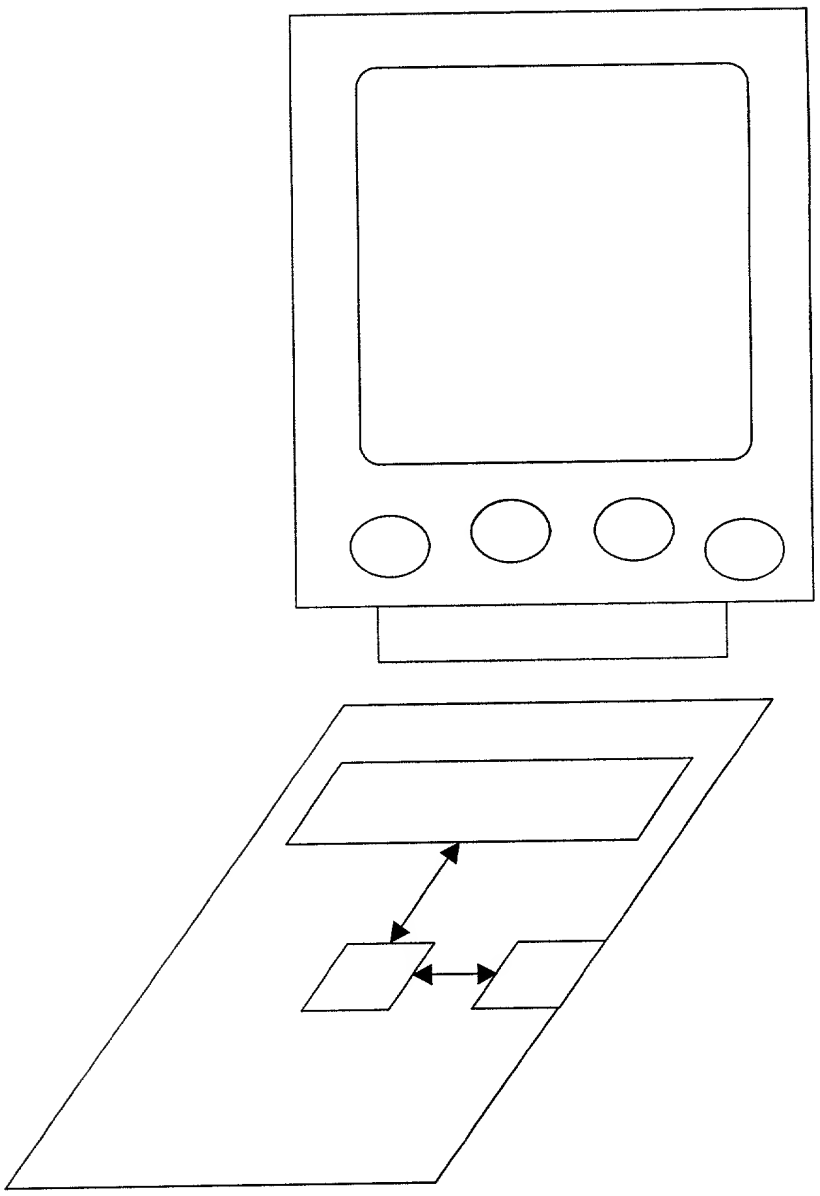


Figure 6

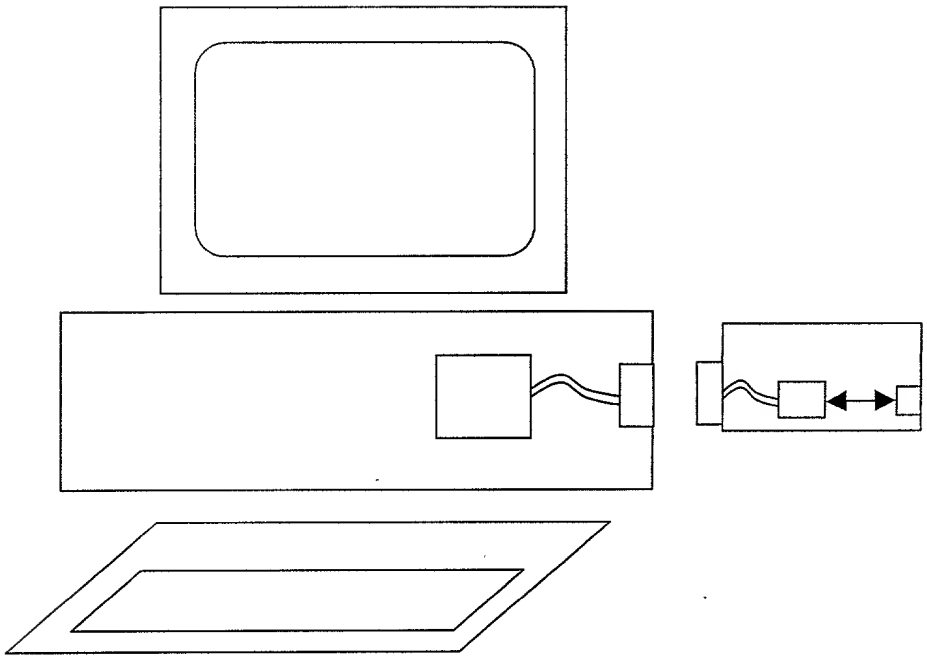
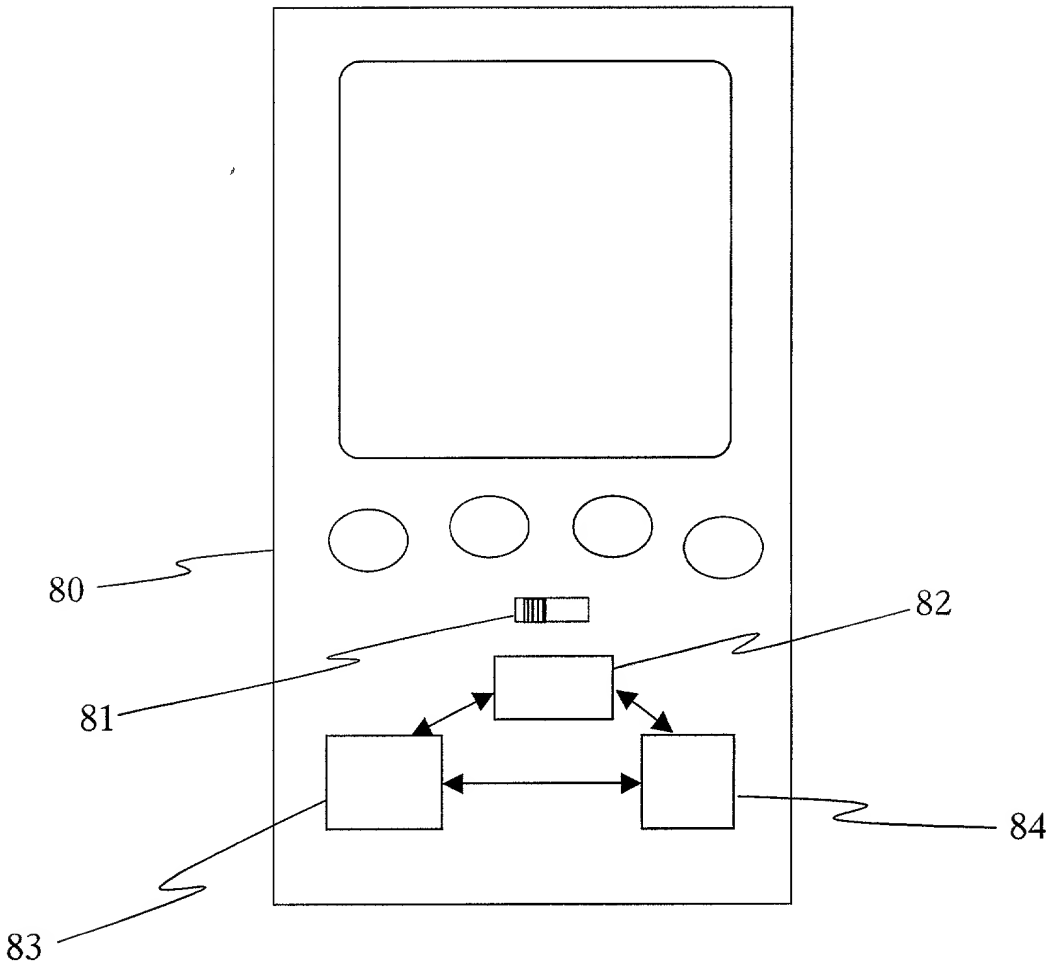


Figure 7



83 is the PDA processor
84 is a PDA display controller
82 is the signing module

Figure 8